

PCO Brief

RADM Dick Brooks, USN
Commander, Naval Safety
Center
12 March 2004



Mission Statement

Our purpose is to enhance the warfighting capability of the Navy and Marine Corps by arming our Sailors, Marines and civilians with the knowledge they need to save lives and preserve resources while accomplishing their missions.

Mission: Readiness

Product: Awareness

Process: Education

Bottom Line: It's Your Safety Center!

What are we doing for you? What are we not doing for you?





External Chain of Command

CHIEFOF NAVAL OPERATIONS

Special Assistant for Safety Matters (CNO NO9F)
Commander, Naval Safety Center

Special Assistant for Safety Matters (CNO NO9FB)
Washington Liaison





Providing Fleet support in aviation, shore, afloat and OSH





NSC at your service ... for free!

Let our experience, expertise and unrivaled commitment to safety work for you.

- Mishap Investigations
- Surveys
- Assist Visits
- **Exhibits**
- Presentations
- Publications
- Website
- O Data Analysis
- Workshops

Call 757-444-3520 (DSN 564) or visit us on the web: www.safetycenter.navy.mil

MAGAZINES



SURVEYS



STATISTICS



MARKETING



ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings

AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page

WHAT DO YOU NEED FROM YOUR NSC?





NSC *Website:* Your Valuable

wyRyesfotygenter. navy.mil



Search

Top Pages

- WESS Online Reporting
- Photo of the Week
- SafeTips
- Seasonal Resources
- Safetyline eNewsletter
- Executive Safety Summary
- Operational Risk Management
- · What's New on our Site

Approach

Magazines

September 2003

Safety in the Spotlight ...

Simple Lessons Learned from Hurricane Isabel

Some lessons learned from Hurricane Isabel to help you when severe weather strikes your area.

More >>

Previous News >>

Site Map >>

News & Articles

- · We've Changed Our Home Page Here's an intro to our new home page to help you find things better.
- Feeding a Harrier A Marine gets a little too close to an intake and gets the surprise of a lifetime.
- · Sometimes It's the Simple Things The seemingly simple things almost claimed three lives 35 years ago aboard one of the Navy's deep submersibles.
- A Killer: Anger Behind the Wheel An angry motorist Shore OSH kills a young woman when she doesn't move out of his way.

Summer 2003

Fathom

Ashore

July - Sept 2003



Mech Summer 2003



Ground Warrior

Summer 2003

Additional Features

Make Us Your Home Page Last Updated: 26 Sep 2003

Visitors to this page since January 1, 2000

1121403

Services

- Statistics
- Risk Management Public Affairs Officer
- FOIA
- Reserve Unit
- Culture Workshop
- Staff Directory

- Safety Posters
- Useful Links
- Our Mission Admiral's Bio
- · Resource Pages
- Presentations/Briefs
- Contact Us

Additional resources can be found on our secure site - available to .mil customers only

This is an official U.S. Navy Web site.

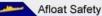
Naval Safety Center, 375 A St. Norfolk, VA 23511 Contact the Webmaster or Public Affairs Officer

Shore Safety

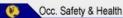
- Explosives/Ordnance
- Fire Data Analysis
- High Risk Training
- Motor Vehicle
- Recreation
- Tactical

Aviation Safety

- Aeromedical
- BASH
- Data Analysis
- Maintenance
- Operations



- Diving
- Submarine
- Surface Warfare



- Civilian Communities
- Lost Work Day Data
- Afloat OSH
- Ground/Marine OSH



Marine Safety Division

- Ground Warrior Magazine

This US Government System is subject to monitoring. Please review the Priovacy Act, Security Notice, and Disclaimer for External Links

Accessibility Help and Info







Data and Statis

- Analyze 12 million records
- More than 3,000 retrievals per month
- Afloat Directorate
- Enter 1,100 afloat mishaps/year
- Average 2 major queries/month affecting policy, design, procedures, etc.
- Provide 200-300
 queries/month to ships,
 contractors, analysts, etc.





SAFETY COLUMN

Our Magazines Reach Every

Community APPROACH (1955)

1,920 addresses, 15,840 copies approach@safetycenter.navy.mil

MECH (1961)

1,730 addresses, 15,960 copies mech@safetycenter.navy.mil

FATHOM (1969)

1,830 addresses, 17,150 copies fathom@safetycenter.navy.mil

ASHORE (1985)

2,900 addresses, 29,980 copies ashore@safetycenter.navy.mil

GROUND WARRIOR (1999)

28,700 copies

groundwarrior@safetycenter.navy.mil



For distribution inquiries, contact:

virginia.rives@navy.mil 757.444-3520 ext. 7256





What's A Safety Survey?

- Free, one-day assessment by Safety Center
- Survey teams train staff to identify hazards and fix problems with their programs
- No formal reports to higher authority -- not an inspection





Survey Results - They Work!



AVIATION / FY02

- 65 squadrons received safety surveys 2 (3%) had Class-A mishap
- 206 squadrons did not receive safety surveys 33 (16%) had Class-A mishap
- 2 mishaps vice 10 saved \$140 million (17.5 per mishap)



SURFACE / FY01-03

- 20 out of 96 ships did not receive safety surveys 30-120 days prior to INSURV -
 - 6 had INSURV terminated
- 30% probability of failing INSURV without safety surveys



SUB-SURFACE / FY02-

- 1 subs had safety surveys only 1 class-A mishap
- 13 did not receive safety surveys 4 had class-A mishap



SHORE / FY02-03

In the past years, we haven't been able to make the same connection with the aviation, surface and sub-surface communities.





Where Are We?

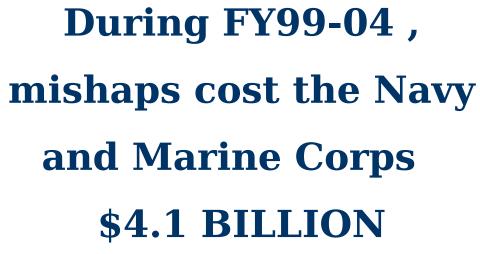












and 1.114 LIVES!

232 Sailors and Marines died in FY03

69 Sailors and Marines died this fiscal year to date

Indirect costs? Families

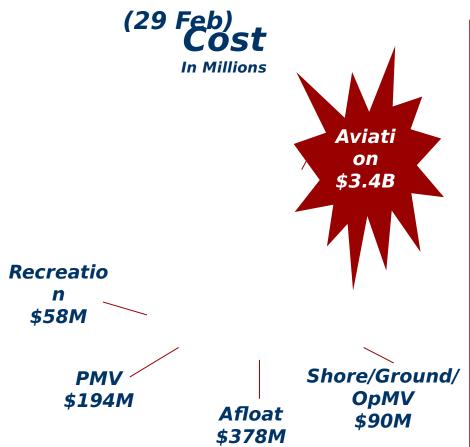
y
Futures



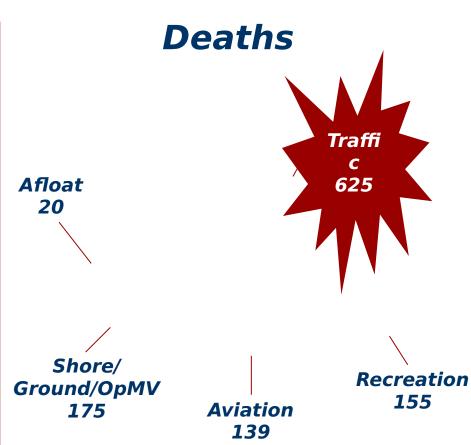


Cost And Deaths

USN/USMC, FY99-04







5-Year Plus Total: 1,114

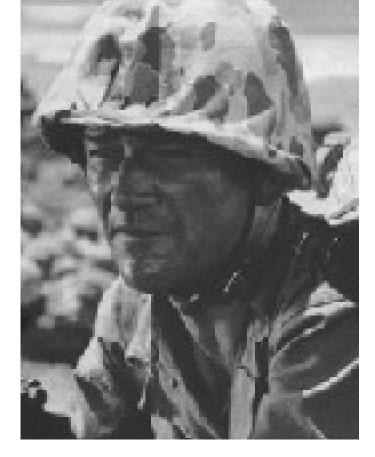




"Life is tough, but it's tougher if you're

stu (1)

Sergeant John M.
Stryker, USMC
In
"The Sands of Iwo
Jima"







USN/USMC, FY98-03

No. of Class-A Mishaps		Human Error	
USN Aviation =	117 of 133	□ HE 88%	Non- HE 12%
USMC Aviation =	62 of 71	HE 87%	Non- HE 13%
Navy Afloat	48 of 51	→ HE 94%	Non- HE 6%
Navy OpShore(non- *based on events with known causes	50 of 56*	□ HE 89%	Non- HE 11%
Navy PMV Fatalities	328 of 383	→ HE 86%	Non- HE 14%





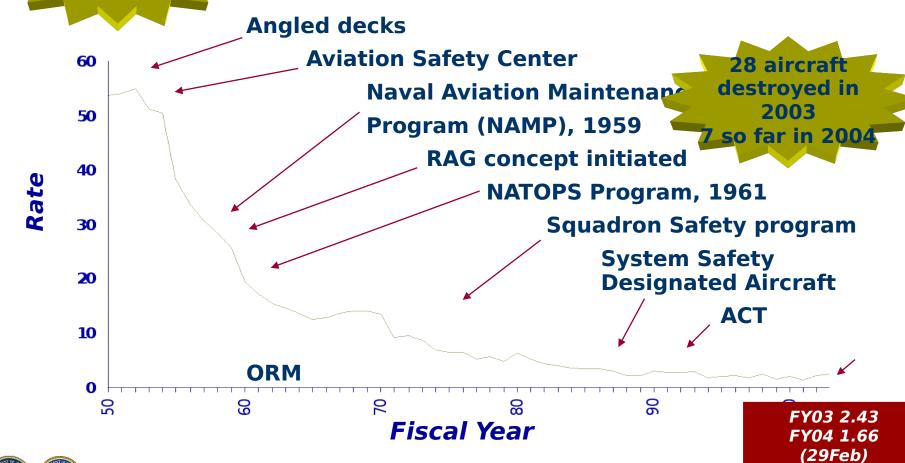
Intervention Strategies





Naval Aviation Mishap Trend

776 aircraft destroyed in 1954 USN and USMC, FY50-04 (29 Feb)

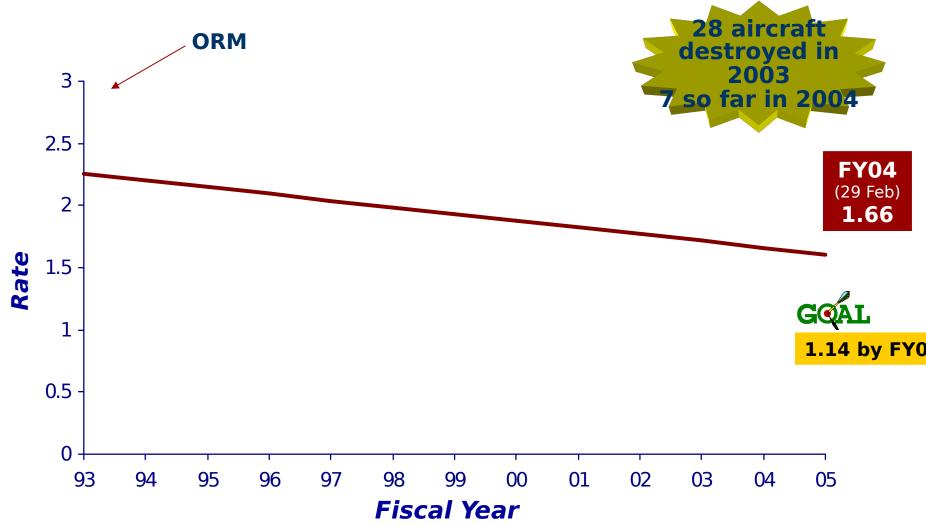






Naval Aviation Mishap Trend

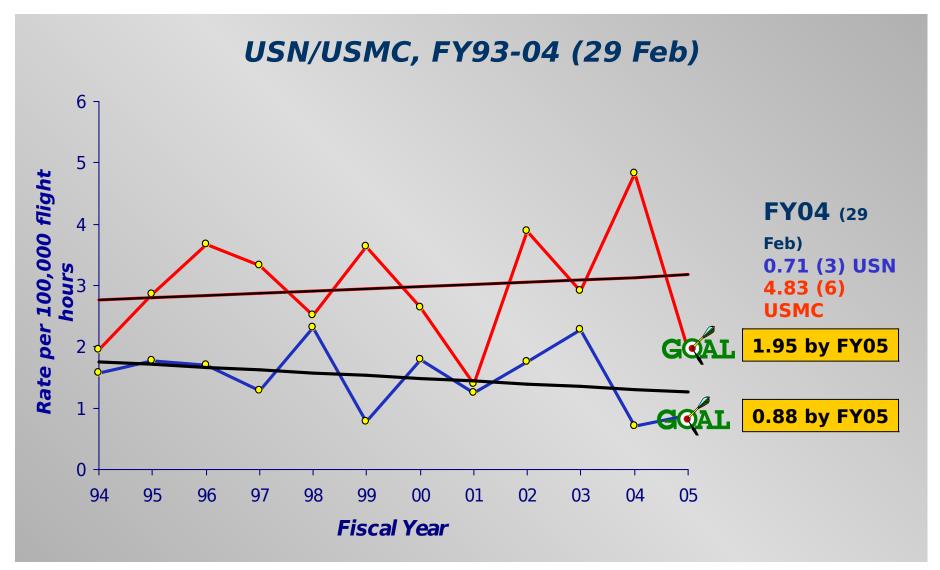
USN and USMC, FY93-04 (29 Feb)







Class-A Flight Mishap Rates







Procedures - Standards - Training - Awareness

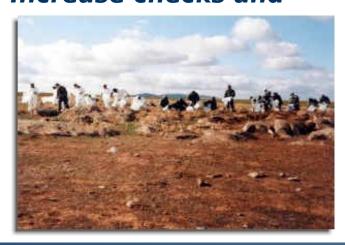
Trends

Mishap Investigations

- Human error (aircrew):Leading causal factor
 - Skill-based errors
 - CRM failures
 - Violations
- Inexperience <u>Surveys</u>
- Manning/inexperience
- Training quality/quantity
- NATOPS/technical pubs
- Cannibalization rates

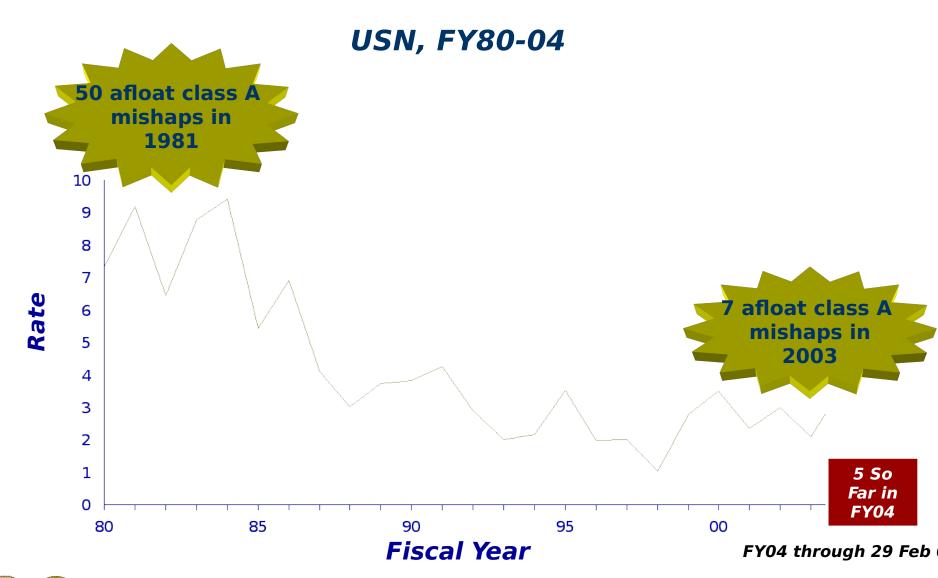
Takeaways

- Fund state-of-art simulators and data centric systems
- Improve training
- Increase proficiency
- Institutionalize ORM
- Enforce standards
- Increase checks and





Afloat Mishap Trend

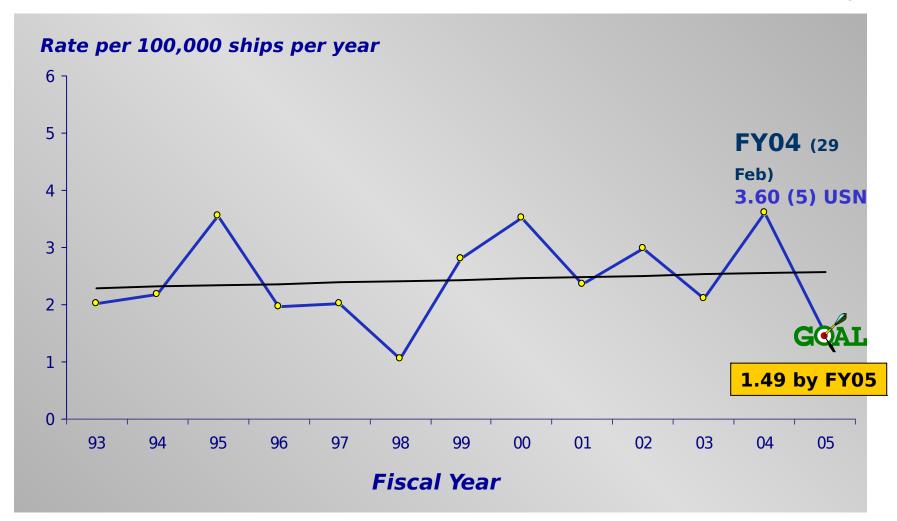






Afloat Class-A Mishap Rates

Fiscal Year 2003 (August 28)







Procedures - Standards - Training - Awareness

Trends

Mishap Investigations

- Inadequate supervision
- Poor PMS
- Poor CRM
- Poor situational awareness
- Complacency

Surveys

- Poor leadership, supervision
- Poor PMS
- Weak self-assessment capability
- Ineffective training

Takeaways

- Leadership commitment
- Enforce standards
- Increase checks and balances
- Institutionalize ORM
- Demand risk assessments
- Improve/standardize navigation technology
- Increase simulator training

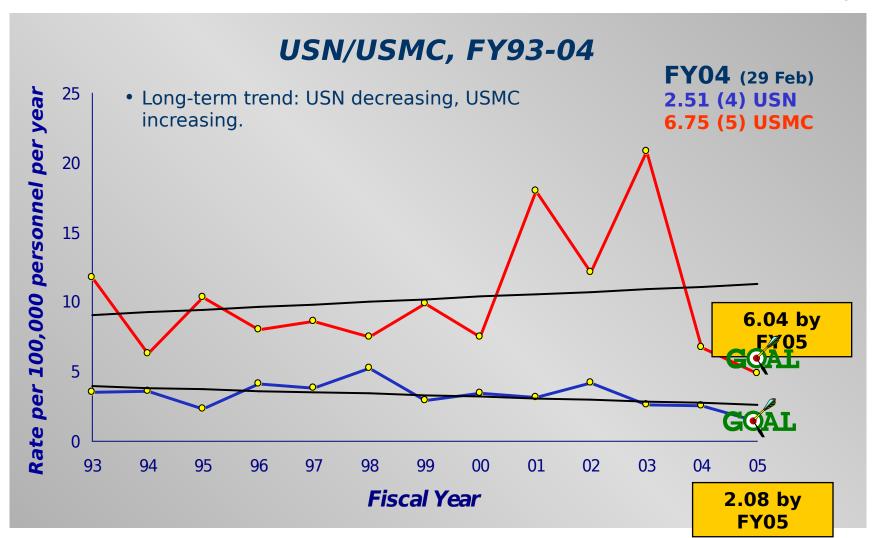


Operational Ashore Class A Mishap Trend USN and USMC, FY88-04 54 Class A Mishaps in 1988 47 Class A Mishaps in FY03 **ACMC ESTABLISHES GROUND SAFETY PGM** 9 **ACTIVATES SAFECEN COMPONENT** 8 7 6 5 4 3 1 9 So Far in FY04 0 88 90 95 00 Fiscal Year FY04 through 29 Feb 04.



Ashore Class-A Mishap Rates

Fiscal Year 2003 (August 28)







Procedures - Standards - Training - Awareness

Trends

Mishap Investigations

- Lack of headwork
- Inadequate supervision
- Inexperience
- Complacency
- Alcohol involvement
- Non-use of PPE

<u>Surveys</u>

- Ineffective oversight
- Inadequate training
- Lack of ORM
- Poor command culture

Takeaways

- Leadership commitment
- Enforce standards
- Improve awareness
- Demand risk assessments
- Improve safety manning/placement
- Increase checks and balances
- Institutionalize ORM
- Improve training









PERSPECTIVE

"IN 1968, WE LOST 99 AMERICAN SAILORS IN USS SCORPION, WHICH WE THINK OF AS A NATIONAL DISASTER; WHILE WE LOST 103 SAILORS AND MARINES IN PMV ACCIDENTS IN 1998, AND CALL IT OUR 'BEST YEAR'!"

ROBERT B. PIRIE ACTING SECRETARY OF THE NAVY 20 JANUARY - 24 MAY 2001





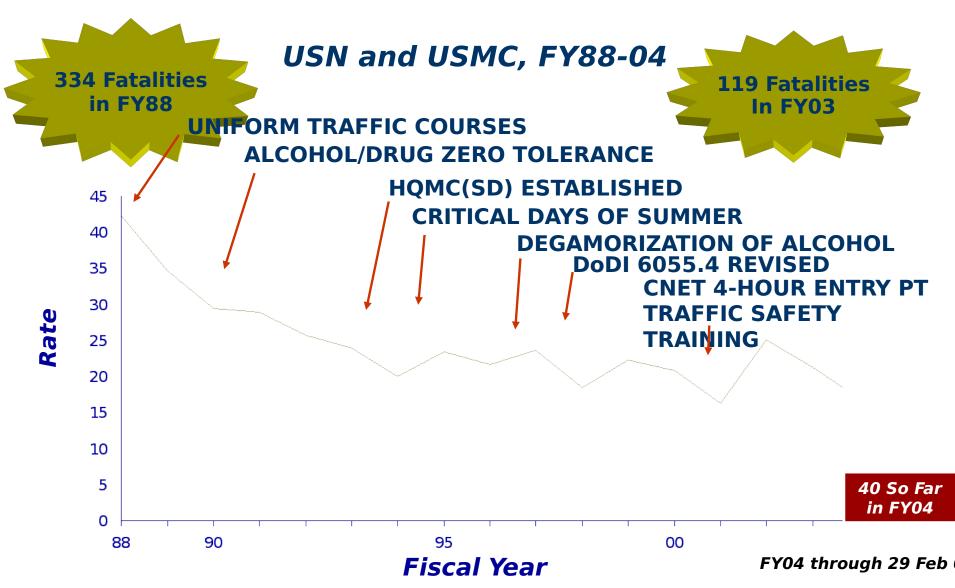




WHY DOWE ACCEPT PMV ACCIDENTS?

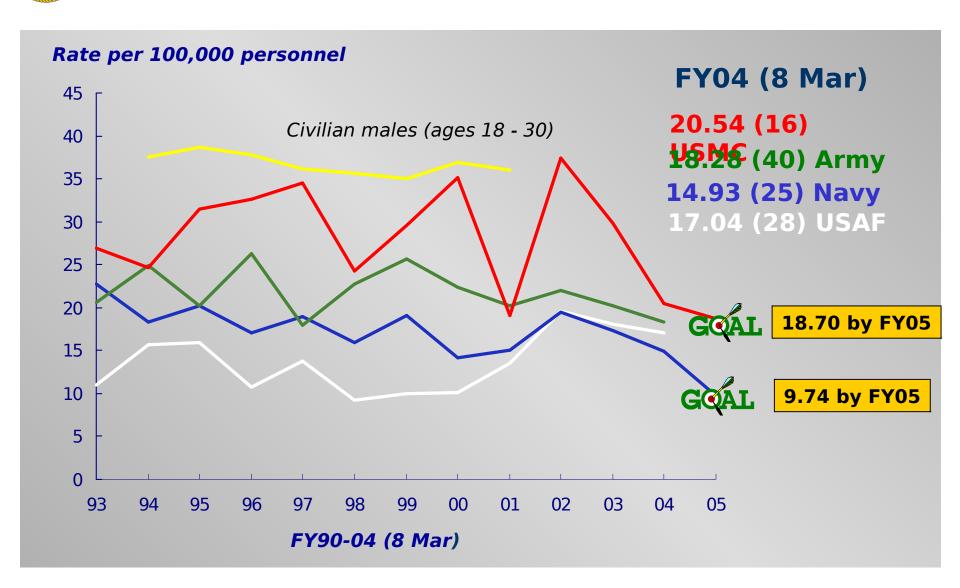


PMV Fatality Trend





PMV Death Rates







USN USMC

Day of Week

SAT: 98 (26%)

SAT: 74 (25%)

Time of Day

0200-0259: 40 (11%)

0530-0629 27

(9%)

JUL: 44 (12%) Month

AUG: 43 (11%)

APR: 35 (12%) JUL: 34 (11%)

Month/Day

1-hr Period:

JUL 14: 5

DEC 23: 5

DEC 23: 5

Day/Time: 2-hr Period:

SAT 0100-0259: 19

SAT 0330-0529:

16

SUN 0100-0259: 19

SUN 0130-0329:

SAT 0030-0129: 12

SAT 0030-0129:

16

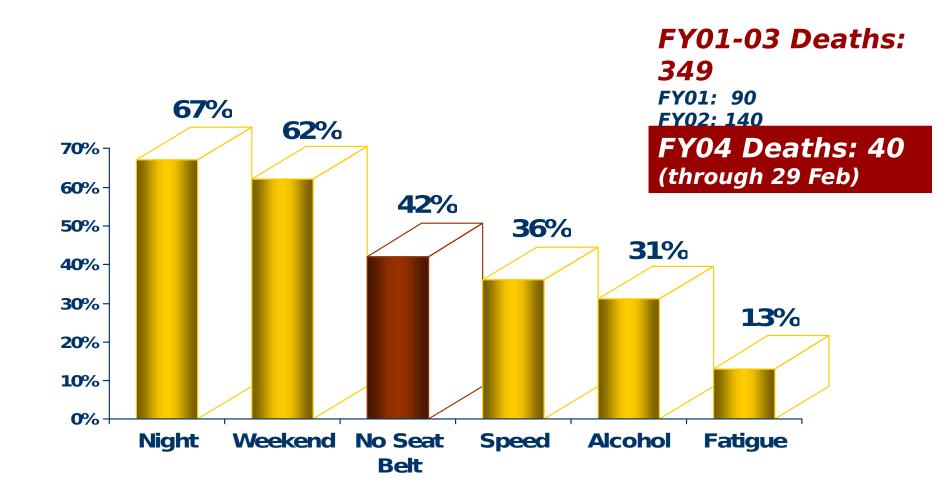
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Factors In Traffic Deaths

USN/USMC, FY01-03







PMV Fatalities By Community

USN/USMC, FY99-04

Fiscal Year 2004 (29 February)

Afloat

USMC Aviation

Shore

Navy Aviation

USMC Ground





The Navy-Marine Corps' #1 Readiness Problem

What We Can Do For You

- Navy program manager
- Program guidance
- Surveys/Assist visits
- Mishap trends
- Certify instructors:
 - Motorcycle operators
 - Emergency Vehicle

Operators

Course

- AAA / Driver Improvement Program
- Traffic ORM training

What You Can Do

- Set example
- Educate
- Enforce standards
- Fund intervention programs







Common Problems

What Is Being Done

- No traffic safety coordinator
- No motorcycle, AAA-DIP and/or EVOC training
- No seat belt program
- Mishap reporting deficiencies
- No prohibition on GMV operation when license suspended or DUI/DWI
- Personnel riding in cargo areas of vehicles
- Traffic devices/signs/roadway markings don't meet federal highway specifications









Motor Vehicle Safety

What We're Doing For You

- Government agency partnership
- Military services partnership
- National Traffic Safety Coalition Groups
- Fatal Vision Goggles
- Click It or Ticket Campaign

OUR PARTNERS IN SAFETY











National Highway Traffic Safety Administration's Lifesaver Conference and Click It or Ticket Campaign



Fatal Vision Goggles



Council





What You Can Do - These

This as IA7a-d. I

www.safetycenter.navy.mil/ashore/motorvehicle/downloads/toolbox.
doc





- Leave chit statement
- PMV status board
- Designated driver/CMD transport
- Pre-trip checklist/brief/counseling
- Calling card for emergencies
- Co's PMV policy
- PMV safety quiz
- Safety stand-downs/seminars
- Pre-holiday briefs
- Newcomer orientation/indoctrination
- Leave/ liberty request
- Crash prevention awards program
- Form a Local Authority Partnership

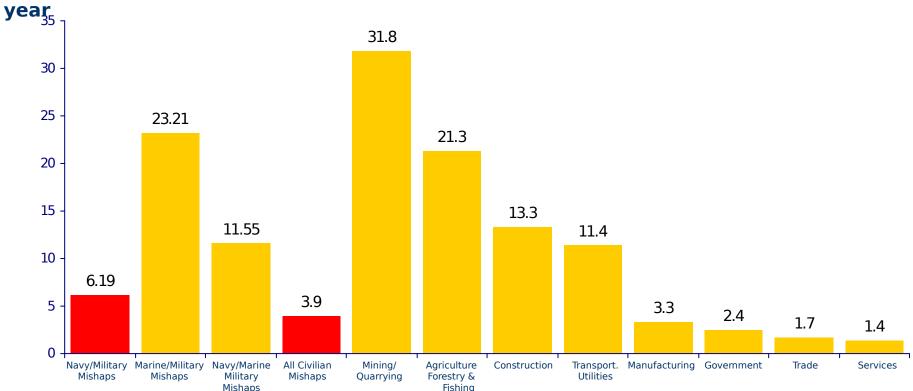




Occupational Fatality Rates

Navy/Marine Military and National





Navy/Marine Data: FY99-03

average

Civilian Data: CY01

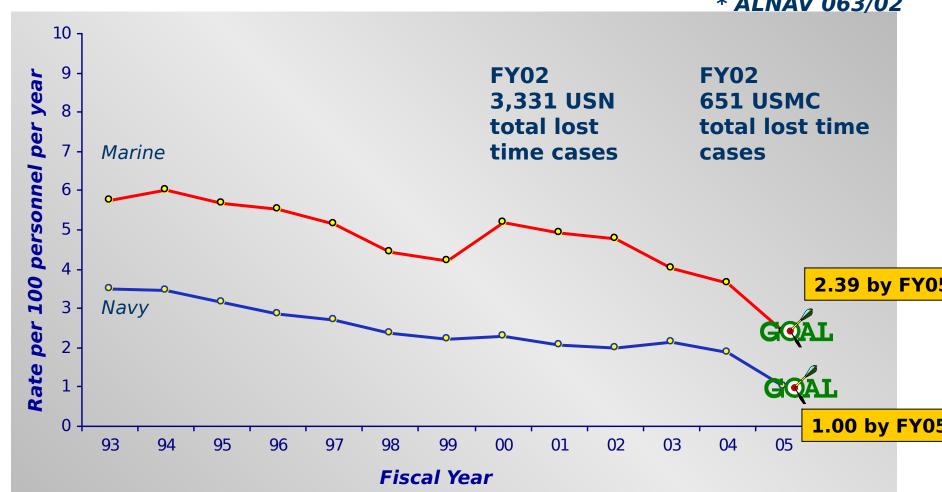




Lost Work Day Rates

No substantial short-term trends 50% reduction goal: 12.1 lost workdays per 100 workers per year*

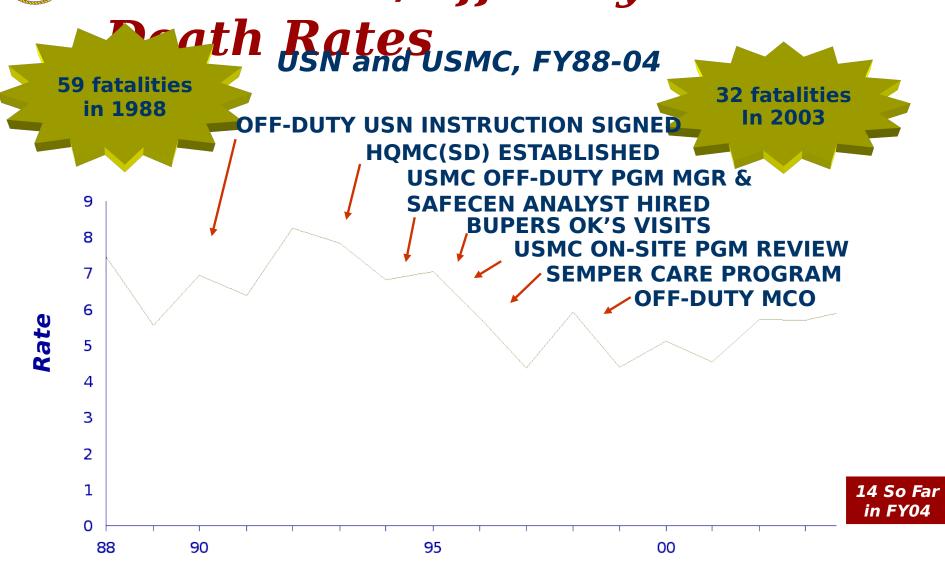








Recreation/Off-Duty







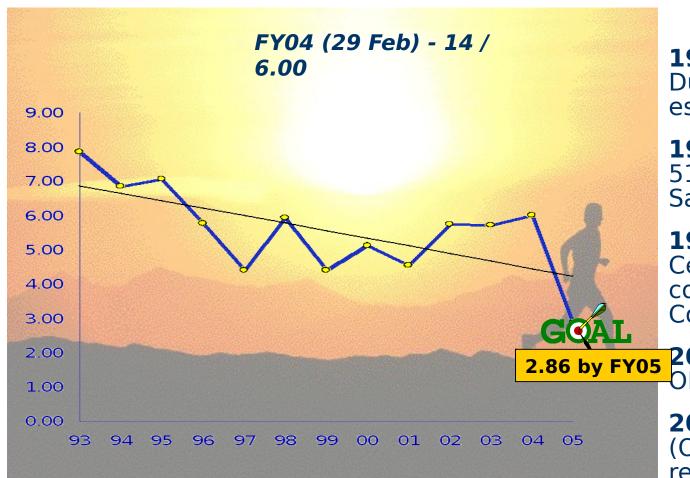


Recreation Off-Duty Death

Rates

Rate per 100,000 personnel

USN/USMC, FY93-04 (29 Feb)



1982: Navy Off-Duty Program established

1990: OPNAV 5100.25 (Off-Duty Safety Program)

1993: Naval Safety Center starts collecting Marine Corps data

2000: Off-Duty ORM implemented

2001: MCO 5100.30 (Off-Duty Safety) revised





Off-Duty Recreation Mishaps

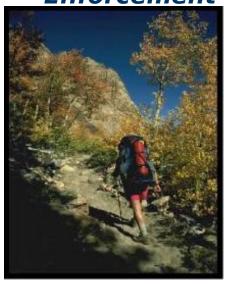
Leading Cause of Injuries

What We Can Do For You

- Navy program manager
- Recreation safety "hot spots"
 - Team sports
 - Water sports
 - Biking, skiing, jogging
- Other off-duty problems
 - Vehicle maintenance
 - Falls
- Risk management [Vital!]
- Qualification training [Helps!]

What You Can Do

- Educate
- Risk management
- Enforcement



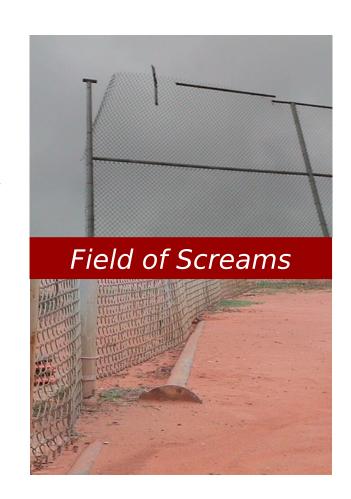




Off-Duty Recreation Safety

Common Problems

- No designated off-duty/recreation manager
- No records of hazard awareness training
- No record of specific hazard training for hobby shop equipment or small boats
- Poor maintenance of playing fields
- No PPE for cycling, skating, racquetball
- Insufficient cushioning under playground equipment for fall protection
- Missing guards in woodworking shops
- No inspections of bleachers/grandstands





Shore Mishap Investigations

What We Can Do For You

- Assist your Mishap
 Investigation Board (class
 A and select class B)
- Arrange for technical support
- Track endorsements and recommended actions
- Class C & "near-miss" incidents
- Coordination & liaison with OSHA region

What You Can Do

- Seek the "ground" truth
- Search for contributing factors
- Root causes
- Use results for mishapprevention purposes only
- Learn from class "C" & "near-miss" incidents
- Surveys work!
- Ask the what, why, how, who, when, where Use the answers to



prevent the next one!



Other Shore Safety Programs

- Fire protection
- Explosives and weapons systems
- Tactical operations (USMC)
- High-risk training
 - rappelling/parachuting/combat shooting, etc.





What's wrong with this picture







ORM: A Tool For Leaders



Five Steps

1. Identify
Hazards

2. Assess
Hazards

4. Implement
Controls

3. Make Risk
Decisions

- Easy, common-sense process
- Mind-set
- Way of life
- Operating discipline
- Process must be taught

YOU CAN'T "ORM" SOMETHING THAT'S STUPID, TO SOMETHING THAT'S SMART!!!



Secretary Rumsfeld's Challenge



THE SECRETARY OF DEFENSE 1000 DEFENSE PENTAGON WASHINGTON, DC 20301-1000

May 19, 2003

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS CHAIRMAN OF THE JOINT CHIEFS OF STAFF

UNDER SECRETARIES OF DEFENSE DIRECTOR, DEFENSE RESEARCH AND ENGINEERING ASSISTANT SECRETARIES OF DEFENSE GENERAL COUNSEL OF THE DEPARTMENT OF

DEFENSE
INSPECTOR GENERAL OF THE DEPARTMENT OF

INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE

DIRECTOR, OPERATIONAL TEST AND EVALUATION ASSISTANTS TO THE SECRETARY OF DEFENSE DIRECTOR, ADMINISTRATION AND MANAGEMENT DIRECTOR, FORCE TRANSFORMATION DIRECTOR, NET ASSESSMENT DIRECTOR, DROCE AM ADMINISTRATION EVALUATION

DIRECTOR, PROGRAM ANALYSIS AND EVALUATION DIRECTORS OF THE DEFENSE AGENCIES DIRECTORS OF THE DOD FIELD ACTIVITIES

SUBJECT: Reducing Preventable Accidents

World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years. These goals are achievable, and will directly increase our operational readiness. We owe no less to the men and women who defend our Nation.

I have asked the Under Secretary of Defense for Personnel and Readiness to lead a department-wide effort to focus our accident reduction effort. I intend to be updated on our progress routinely. The USD(P&R) will provide detailed instructions in separate correspondence.

2 4 h 1

U06916-03

"World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years."

> Memorandum from Secretary of Defense 19 May 2003





Naval Safety Center Campaign

- Support DoD's 50% mishap reduction goal
- Expand and institutionalize safety awareness
- Promote leadership commitment to cultural change
- Expand numan ractors research
- Continue risk management education / training
- Continue developing web-based reporting system (WESS)
- Navy Marine Corps Safety Council





What We've Done So Far

- Establish Navy Marine Corps Safety
 Council
 - Identified 4 working groups:
 - Afloat Safety
 - Aviation Safety
 - Shore Safety
 - •Ground Tactical Safety
 - Drafted Naval Safety 50% Reduction Plan and POA&M
 - Held Initial Chair/ Co-chair meeting 16 December







Questions/Discussions

RADM Dick Brooks, USN DSN 564-3520 ext. 7003 richard.brooks@navy.mil

Visit our website: www.safetycenter.navy.mil